Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

DRW.10-01 OC13S, 13M, COMPOSITE, S.C. INTERMEDIATE STRUCTURE, 0°-5°

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 35
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Cable Tie	20-SDMS-02	Fig. 63
14	1	Danger Sign Plate	20-SDMS-02	Fig.49
15	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig.50
16	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
17	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
18	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
19	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
20	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-01A OC13S, 13M, COMPOSITE S.C. INTERMEDIATE STRUCTURE, 0°-5°

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Top Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 35
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Cable Tie	20-SDMS-02	Fig. 63
14	1	Danger Sign Plate	20-SDMS-02	Fig.49
15	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig.50
16	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
17	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
18	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
19	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
20	1	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-01B OC13S, 13M, COMPOSITE S.C. INTERMEDIATE STRUCTURE, 0°-5°

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DRW.10-02 OC13S, 13M, COMPOSITE S.C. LIGHT ANGLE STRUCTURE 6°-15° W/M.V & L.V STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Cable Tie	20-SDMS-02	Fig. 63
14	1 Set	Composite One Stay Assembly with 16 & 19 mm Dia Turn Buckle	20-SDMS-02	Drw. 303
15	15M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
16	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
17	1	Danger Sign Plate	20-SDMS-02	Fig. 49
18	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
19	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
20	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
21	1	Pole Numbering Plates	20-SDMS-02	Fig. 51
22	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
23	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-02A OC13S, 13M, COMPOSITE S.C. LIGHT ANGLE STRUCTURE, 6°-15°

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Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S - 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Cable Tie	20-SDMS-02	Fig. 63
14	1 Set	Composite One Stay Assembly with 16 & 19 mm Dia Turn Buckle	20-SDMS-02	Drw. 303
15	15M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
16	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
17	1	Danger Sign Plate	20-SDMS-02	Fig. 49
18	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
19	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
20	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
21	1	Pole Numbering Plates	20-SDMS-02	Fig. 51
22	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
23	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-02B OC13S, 13M, COMPOSITE S.C. LIGHT ANGLE STRUCTURE, 6°-15°

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DRW.10-03 OC13S, 13M, COMPOSITE, SINGLE CIRCUIT
MEDIUM ANGLE STRUCTURE, 16°-60° W/M.V & L.V STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S - 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
11	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	9	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
17	2	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
18	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2	Cable Tie	20-SDMS-02	Fig. 63
20	1	Suspension Clamp for Quadruplex Messenger	20-SDMS-02	Fig. 31
21	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 304
22	30M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
23	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
24	1	Danger Sign Plate	20-SDMS-02	Fig. 49
25	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
26	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
27	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
28	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
30	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-03A OC13S,13M, COMPOSITE, SINGLE CIRCUIT, MEDIUM ANGLE STRUCTURE,16°-60° W/M.V & L.V STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S - 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	9	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
17	2	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
18	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2	Cable Tie	20-SDMS-02	Fig. 63
20	1	Suspension Clamp for Quadruplex Messenger	20-SDMS-02	Fig. 31
21	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 304
22	30M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
23	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
24	1	Danger Sign Plate	20-SDMS-02	Fig. 49
25	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
26	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
27	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
28	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
30	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-03B OC13S,13M, COMPOSITE, SINGLE CIRCUIT, MEDIUM ANGLE STRUCTURE,16°-60° W/M.V & L.V STAYS

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SDCS-01

Dated: 07-03-2007G

1290 1200 350 150 250 100 1125 1125

DRW.10-04 OC13S, 13M, COMPOSITE, SINGLE CIRCUIT
HEAVY ANGLE STRUCTURE, 61°-90° W/M.V & L.V STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
11	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
17	2	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
18	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2	Strain Clamp, Straight Line Deadend Type for Quadruplex Messenger	20-SDMS-02	Fig. 30
20	2	Cable Tie	20-SDMS-02	Fig. 63
21	4	Parallel Groove Comp. Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
22	3	Insulating cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
23	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 304
24	30M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
25	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
26	1	Danger Sign Plate	20-SDMS-02	Fig. 49
27	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
28	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
29	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
30	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
31	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
32	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-04A OC13S,13M, COMPOSITE, SINGLE CIRCUIT, HEAVY ANGLE STRUCTURE, 61°-90° W/TWO STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S - 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
17	2	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
18	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2	Strain Clamp, Straight Line Deadend Type for Quadruplex Messenger	20-SDMS-02	Fig. 30
20	2	Cable Tie	20-SDMS-02	Fig. 63
21	4	Parallel Groove Comp. Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
22	3	Insulating cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
23	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 304
24	30M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
25	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
26	1	Danger Sign Plate	20-SDMS-02	Fig. 49
27	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
28	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
29	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
30	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
31	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
32	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-04B OC13S,13M, COMPOSITE, SINGLE CIRCUIT, HEAVY ANGLE STRUCTURE, 61°-90° W/TWO STAYS

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

DRW.10-05 OC13S, 13M, COMPOSITE, SINGLE CIRCUIT, TERMINAL STRUCTURE WITH M.V & L.V STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S - 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
11	5	Anchor Shackle	20-SDMS-02	Fig. 20
12	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
14	3	Parallel Groove Clamp, Three Bolts Type for Merlin ACSR Conductor	20-SDMS-02	Fig. 39
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig. 39
16	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
17	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
18	1	Cable Tie	20-SDMS-02	Fig. 63
19	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
20	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 304
21	30M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
22	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
23	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
24	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
25	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
26	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
27	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
28	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-05A OC13S, 13M, COMPOSITE, SINGLE CIRCUIT, TERMINAL STRUCTURE WITH M.V & L.V STAYS

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Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
11	5	Anchor Shackle	20-SDMS-02	Fig. 20
12	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
14	3	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig. 39
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig. 39
16	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
17	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
18	1	Cable Tie	20-SDMS-02	Fig. 63
19	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
20	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 304
21	30M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
22	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
23	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
24	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
25	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
26	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
27	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
28	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-05B OC13S, 13M, COMPOSITE, SINGLE CIRCUIT, TERMINAL STRUCTURE WITH M.V & L.V STAYS

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DRW.10-06 OC13S, 13M, COMPOSITE, S.C. DOUBLE TERMINAL AT 90° STRUCTURE WITH M.V & L.V STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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Dated: 07−03−2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S − 13 Meter Steel Pole, HDG, Single Circuit	20−SDMS−01	Page 35
02	4	Crossarm − L 100x100x12x2400mm L.G.	20−SDMS−02	Fig. 01
03	4	Brace − L 50x50x4x828mm L.G.	20−SDMS−02	Fig. 04
04	4	Brace − L 50x50x4x828mm L.G. With One End Clipped	20−SDMS−02	Fig. 04
05	3	Line Post Insulator	15−SDMS−01	Clause 4.2.8
06	6 Set	Suspension Insulator	15−SDMS−01	Page 23
07	3	Parallel Groove Compression Connector for Merlin − Merlin	20−SDMS−02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail−Quail	20−SDMS−02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20−SDMS−02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20−SDMS−02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20−SDMS−02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20−SDMS−02	Fig. 30
13	6	Strain Clamp, 3 U−Bolts Type for Merlin	20−SDMS−02	Fig. 29
14	10	Anchor Shackle	20−SDMS−02	Fig. 20
15	6	Clevis Eye Extension	20−SDMS−02	Fig. 21
16	4	Earthwire Suspension Support	20−SDMS−02	Fig. 5
17	3	Preformed Line Post Insulator Top Tie for Merlin	20−SDMS−02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20−SDMS−02	Fig. 7
19	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20−SDMS−02	Fig. 30
20	4	Parallel Groove Compression Connector for 120mm2 Quadruplex Messenger	20−SDMS−02	Fig. 39
21	3	Insulating Cap for Quadruplex Messenger	20−SDMS−02	Fig. 40
22	2 Set	Phasing Plates (A,B,C)	20−SDMS−02	Fig. 53
23	6	Phasing Plate Mounting Bracket	20−SDMS−02	Fig. 54
24	1 Set	Composite Two Stay Assembly for Double Terminal & IMP Tap−Off	20−SDMS−02	Drw. 304
25	2 Set	M.V − S.C One Stay Assembly	20−SDMS−02	Drw. 305
26	56M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
27	12M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
28	1 Set	Danger Sign Plate	20−SDMS−02	Fig. 49
29	1	Danger Sign Mounting Bracket	20−SDMS−02	Fig. 50
30	10M	Anti−Climbing Device, Barbed Wire	20−SDMS−02	Fig. 13
31	2	Buckle Type, Locking Clip for Barbed Wire	20−SDMS−02	Fig. 13A
32	1.4M	Stainless Steel Strap	20−SDMS−02	Fig. 55
33	2	Stainless Steel Buckle Locking Clamp	20−SDMS−02	Fig. 55A
34	1 Set	Pole Numbering Plates	20−SDMS−02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10−06A OC13S, 13M, COMPOSITE, S.C. DOUBLE TERMINAL AT 90° STRUCTURE WITH M.V & L.V STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S - 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail - Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail - Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	4	Earthwire Suspension Support	20-SDMS-02	Fig. 5
17	3	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
20	4	Parallel Groove Compression Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
21	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
23	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
24	1 Set	Composite Two Stay Assembly for Double Terminal & IMP Tap-Off	20-SDMS-02	Drw. 304
25	2 Set	M.V - S.C One Stay Assembly	20-SDMS-02	Drw. 305
26	56M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
27	12M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
28	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
29	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
30	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
31	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
32	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
33	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
34	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-06B OC13S, 13M, COMPOSITE, S.C. DOUBLE TERMINAL AT 90° STRUCTURE WITH M.V & L.V STAYS

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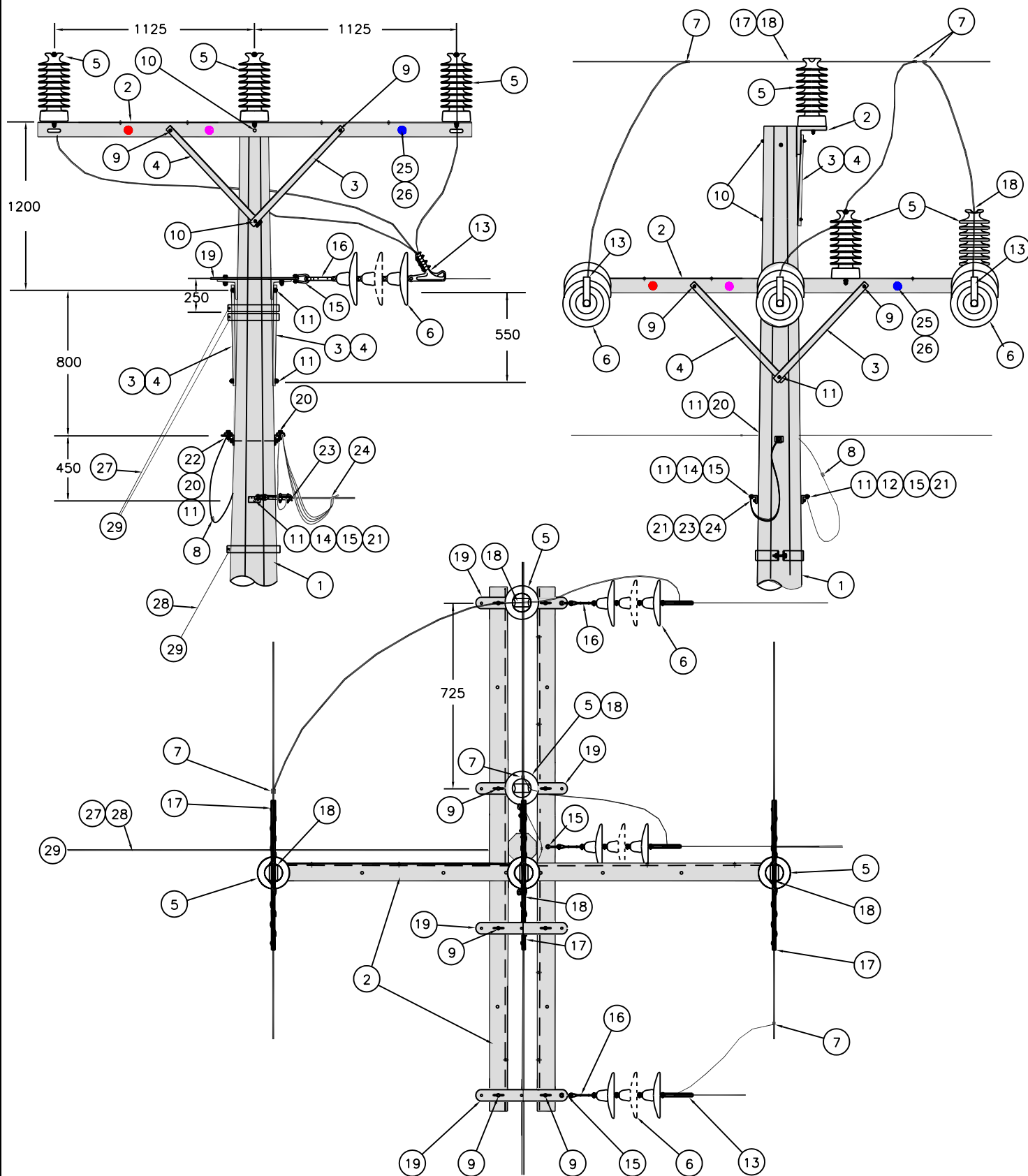
Dated: 07-03-2007G

DRW.10-07 OC13S,13M, S.C COMPOSITE TAP-OFF ON INTERMEDIATE 0°-5° STRUCTURE WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin-Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	5	Anchor Shackle	20-SDMS-02	Fig. 20
16	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	3 Set	Preformed Armoured Rods for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
18a	3	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
18b	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
21	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
22	1 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
23	4	Parallel Groove Compression Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
24	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
25	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
26	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
27	26M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
28	12M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
29	1 Set	Composite Two Stay Assembly for Double Terminal & IMP Tap-Off	20-SDMS-02	Drw. 301
30	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
31	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
32	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
33	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
34	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
35	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
36	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ASCR/AW, MERLIN		

DRW.10-07A OC13S, 13M, S.C. COMPOSITE TAP-OFF ON INTERMEDIATE 0°-5° STRUCTURE WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF

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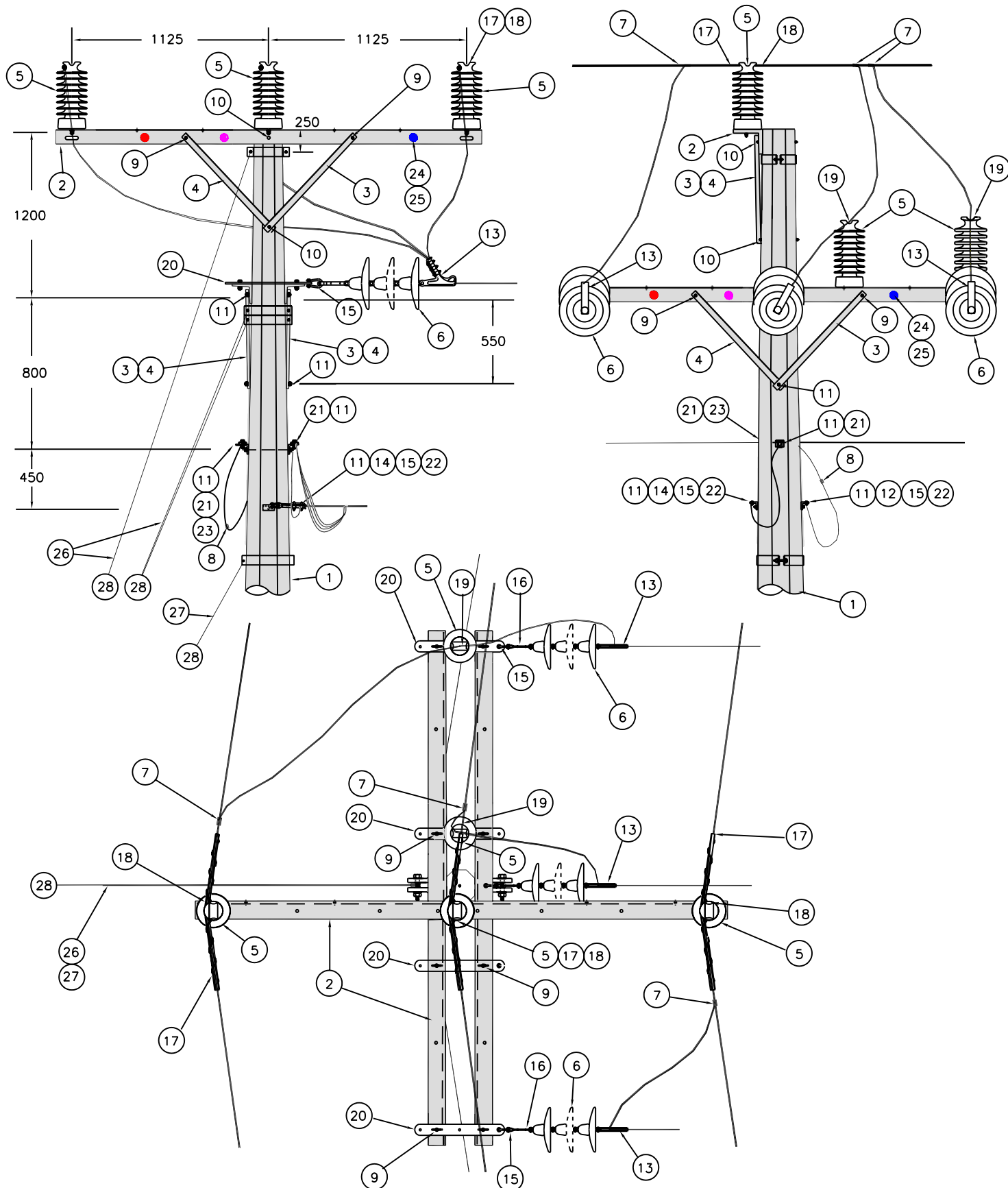
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin-Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	5	Anchor Shackle	20-SDMS-02	Fig. 20
16	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	3 Set	Preformed Armoured Rods for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
18a	3	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
18b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
21	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
22	1 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
23	4	Parallel Groove Compression Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
24	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
25	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
26	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
27	26M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
28	12M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
29	1 Set	Composite Two Stay Assembly for Double Terminal & IMP Tap-Off	20-SDMS-02	Drw. 301
30	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
31	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
32	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
33	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
34	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
35	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
36	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-07B OC13S,13M, S.C. COMPOSITE TAP-OFF ON INTERMEDIATE 0°-5° STRUCTURE WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail-Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	5	Anchor Shackle	20-SDMS-02	Fig. 20
16	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	3 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
18a	3	Preformed Line Post Insulator Top Tie for Quail With Armour	20-SDMS-02	Fig. 35
18b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
21	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
22	1 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
23	4	Parallel Groove Compression Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
24	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
25	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
26	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
27	26M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
28	12M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
29	1 Set	Composite Two Stay Assembly for Double Terminal & IMP Tap-Off	20-SDMS-02	Drw. 301
30	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
31	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
32	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
33	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
34	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
35	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
36	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-07C OC13S, 13M, S.C. COMPOSITE TAP-OFF ON INTERMEDIATE 0°-5° STRUCTURE WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

DRW.10-08 OC13S,13M S.C COMPOSITE TAP-OFF ON LIGHT ANGLE 6°-15° STRUCTURE WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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SEC DISTRIBUTION CONSTRUCTION STANDARDS	SDCS-01
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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S - 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin-Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	5	Anchor Shackle	20-SDMS-02	Fig. 20
16	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	3 Set	Preformed Armoured Rods for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
18	3	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 36
19	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
20	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
21	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
22	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
23	1 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
24	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
25	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
26	41M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
27	12M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
28	1 Set	Composite Three Stay Assembly with 16,19 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 300
29	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
30	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
31	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
32	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
33	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
34	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
35	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-08A OC13S, 13M, S.C. COMPOSITE TAP-OFF ON LIGHT ANGLE 6°-15° STRUCTURE WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin-Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	5	Anchor Shackle	20-SDMS-02	Fig. 20
16	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	3 Set	Preformed Armoured Rods for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
18	3	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 36
19	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
20	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
21	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
22	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
23	1 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
24	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
25	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
26	41M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
27	12M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
28	1 Set	Composite Three Stay Assembly with 16, 19 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 300
29	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
30	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
31	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
32	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
33	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
34	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
35	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.10-08B OC13S, 13M, S.C. COMPOSITE TAP-OFF ON LIGHT ANGLE 6°-15° STRUCTURE WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF

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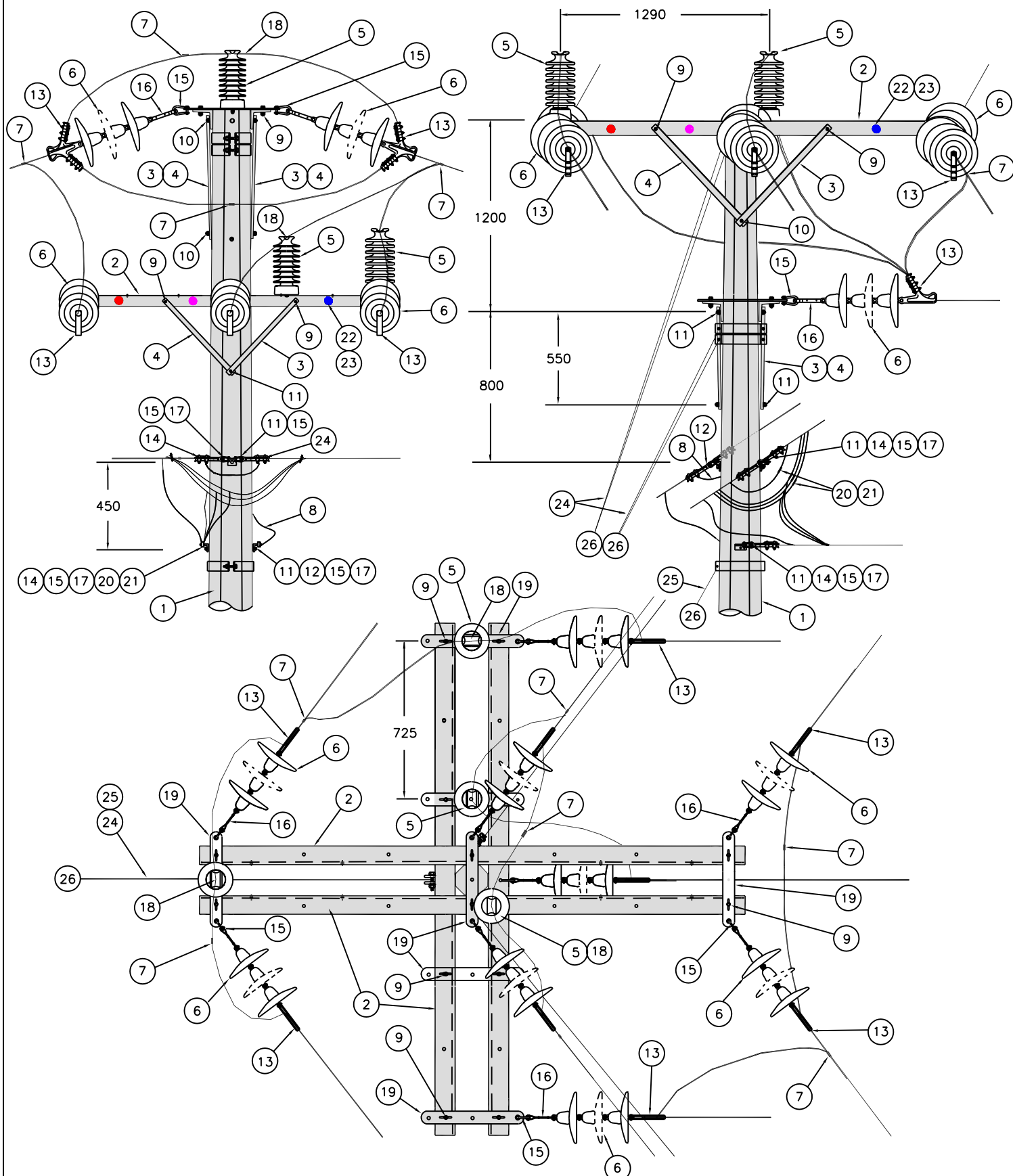
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail-Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	5	Anchor Shackle	20-SDMS-02	Fig. 20
16	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	3 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
18	3	Preformed Line Post Insulator Side Tie for Quail With Armour	20-SDMS-02	Fig. 36
19	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
20	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
21	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
22	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
23	1 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
24	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
25	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
26	41M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
27	12M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
28	1 Set	Composite Three Stay Assembly with 16,19 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 300
29	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
30	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
31	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
32	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
33	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
34	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
35	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-08C OC13S, 13M, S.C. COMPOSITE TAP-OFF ON LIGHT ANGLE 6°-15° STRUCTURE WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

DRW.10-09 OC13S, 13M S.C. COMPOSITE TAP-OFF ON MEDIUM & HEAVY 16°-90° ANGLE STRUCTURE WITH STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S - 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Merlin-Merlin	20-SDMS-02	Fig. 39
08	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	3	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	15	Anchor Shackle	20-SDMS-02	Fig. 20
16	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	4	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18	4	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
19	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	8	Parallel Groove Compression Connector for 120mm2 Quad. Messenger	20-SDMS-02	Fig. 39
21	6	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
23	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
24	56M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
25	12M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
26	1 Set	Composite Three Stay Assembly with 16&24 Turn Buckle	20-SDMS-02	Drw. 304
27	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
28	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
29	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
30	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
31	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
32	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
33	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-09A OC13S, 13M S.C. COMPOSITE TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07a	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
07b	3	Parallel Groove Compression Connector for Merlin – Quail	20-SDMS-02	Fig. 39
08	2	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13a	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13b	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	3	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	15	Anchor Shackle	20-SDMS-02	Fig. 20
16	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	4	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18a	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
19	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	8	Parallel Groove Compression Connector for 120mm^2 Quad. Messenger	20-SDMS-02	Fig. 39
21	6	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
23	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
24	56M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
25	12M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
26	1 Set	Composite Three Stay Assembly with 16&24 Turn Buckle	20-SDMS-02	Drw. 304
27	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
28	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
29	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
30	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
31	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
32	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
33	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-09B OC13S, 13M S.C. COMPOSITE TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF

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	Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
08	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	3	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	15	Anchor Shackle	20-SDMS-02	Fig. 20
16	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	4	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18	4	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
19	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
20	8	Parallel Groove Compression Connector for 120mm² Quad. Messenger	20-SDMS-02	Fig. 39
21	6	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
23	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
24	56M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
25	12M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
26	1 Set	Composite Three Stay Assembly with 16&24 Turn Buckle	20-SDMS-02	Drw. 304
27	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
28	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
29	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
30	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
31	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
32	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
33	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-09C OC13S, 13M S.C COMPOSITE TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

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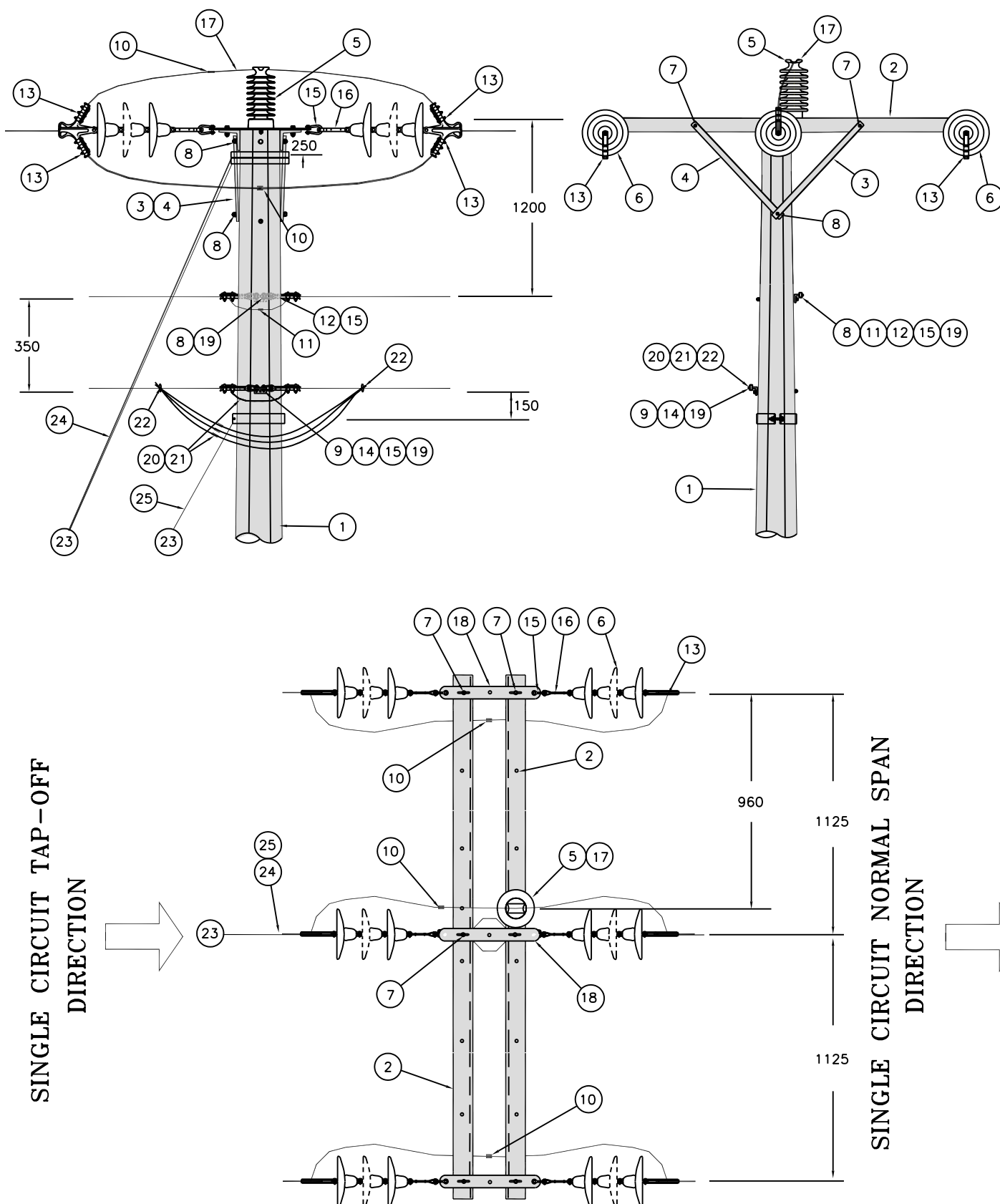
Dated: 07-03-2007G

DRW.10-10 OC13S, 13M SINGLE CIRCUIT, COMPOSITE SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF

ALL DIMENSIONS ARE IN MILLIMETER

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
11	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	10	Anchor Shackle	20-SDMS-02	Fig. 20
16	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	1	Preformed Line Post Insulator Top Tie For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 35
18	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
20	4	Parallel Groove Compression Connector for 120mm2 Quad. Messenger	20-SDMS-02	Fig. 39
21	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2	Cable Tie	20-SDMS-02	Fig. 63
23	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 301
24	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
25	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
26	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
27	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
28	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
30	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
31	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
32	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-10A OC13S, 13M SINGLE CIRCUIT, COMPOSITE SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF (MERLIN MAIN)

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	3	Parallel Groove Comp. Connector for 67.44mm ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	10	Anchor Shackle	20-SDMS-02	Fig. 20
16	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	1	Preformed Line Post Insulator Top Tie For 67.44mm ACSR/AW (Quail)	20-SDMS-02	Fig. 35
18	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
20	4	Parallel Groove Compression Connector for 120mm2 Quad. Messenger	20-SDMS-02	Fig. 39
21	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2	Cable Tie	20-SDMS-02	Fig. 63
23	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 301
24	30M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
25	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
26	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
27	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
28	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
30	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
31	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
32	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-10B OC13S, 13M SINGLE CIRCUIT, COMPOSITE SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF (QUAIL MAIN)

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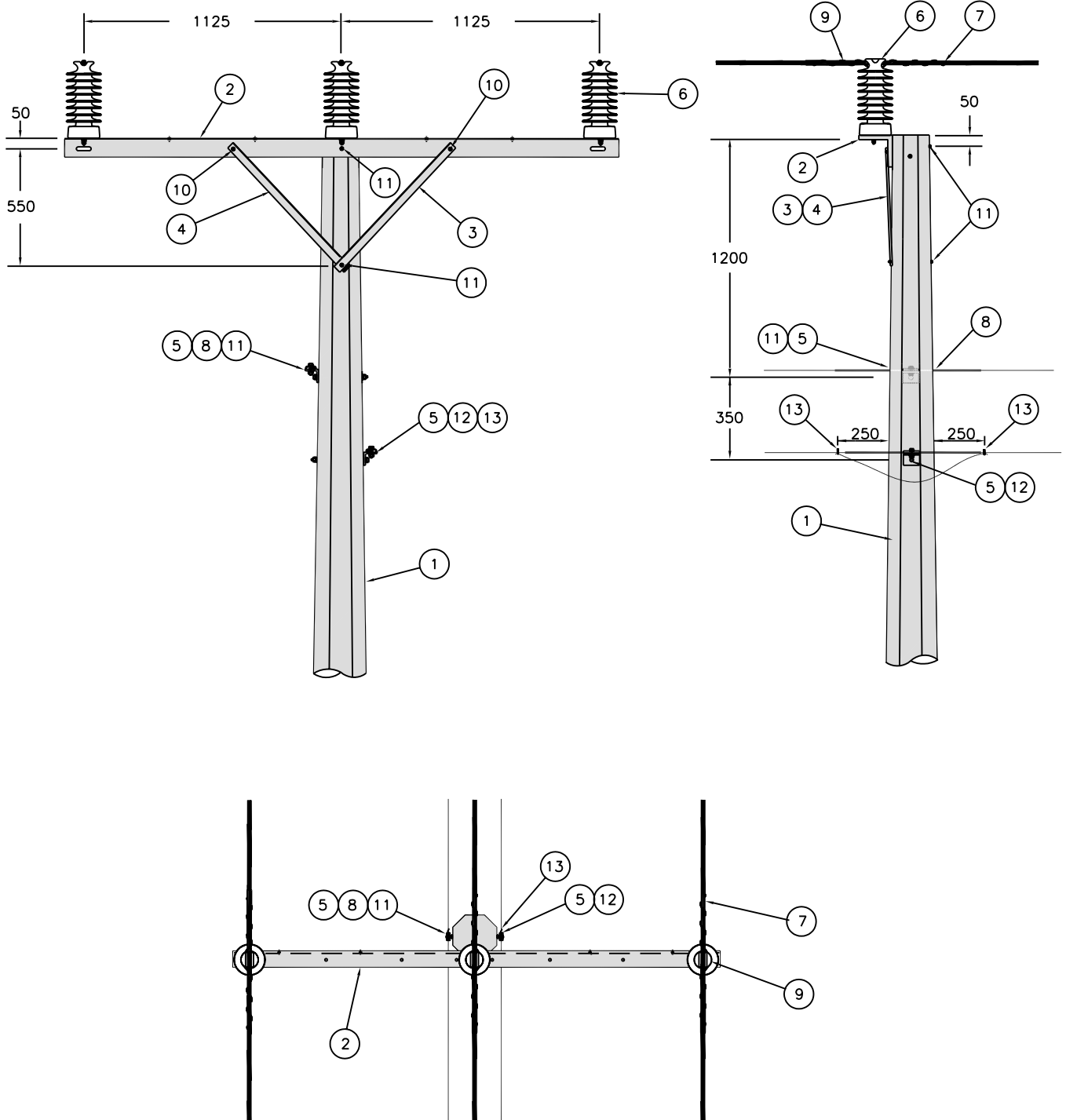
DRW.10−11 OC14S, 14M, COMPOSITE, S.C. INTERMEDIATE STRUCTURE, 0°−5°

ALL DIMENSIONS ARE IN MILLIMETER

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 35
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Cable Tie	20-SDMS-02	Fig. 63
14	1	Danger Sign Plate	20-SDMS-02	Fig.49
15	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig.50
16	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
17	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
18	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
19	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
20	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-11A OC14S, 14M, COMPOSITE S.C. INTERMEDIATE STRUCTURE, 0°-5°

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Top Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 35
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Cable Tie	20-SDMS-02	Fig. 63
14	1	Danger Sign Plate	20-SDMS-02	Fig.49
15	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig.50
16	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
17	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
18	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
19	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
20	1	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-11B OC14S, 14M, COMPOSITE S.C. INTERMEDIATE STRUCTURE, 0°-5°

DRW.10-12 OC14S, 14M, COMPOSITE S.C. LIGHT ANGLE STRUCTURE 6°-15° W/M.V & L.V STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Merlin ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Cable Tie	20-SDMS-02	Fig. 63
14	1 Set	Composite One Stay Assembly with 16 & 19 mm Dia Turn Buckle	20-SDMS-02	Drw. 303
15	16M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
16	14M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
17	1	Danger Sign Plate	20-SDMS-02	Fig. 49
18	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
19	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
20	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
21	1	Pole Numbering Plates	20-SDMS-02	Fig. 51
22	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
23	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-12A OC14S, 14M, COMPOSITE S.C. LIGHT ANGLE STRUCTURE, 6°-15°

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	1	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	1	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
06	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
07	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
08	1 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
09	3 Set	Preformed Line Post Insulator Side Tie for Quail ACSR/AW With Armour	20-SDMS-02	Fig. 36
10	2	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Cable Tie	20-SDMS-02	Fig. 63
14	1 Set	Composite One Stay Assembly with 16 & 19 mm Dia Turn Buckle	20-SDMS-02	Drw. 303
15	16M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
16	14M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
17	1	Danger Sign Plate	20-SDMS-02	Fig. 49
18	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
19	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
20	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
21	1	Pole Numbering Plates	20-SDMS-02	Fig. 51
22	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
23	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-12B OC14S, 14M, COMPOSITE S.C. LIGHT ANGLE STRUCTURE, 6°-15°

DRW.10-13 OC14S, 14M, COMPOSITE, SINGLE CIRCUIT
MEDIUM ANGLE STRUCTURE, 16°-60° W/M.V & L.V STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S - 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
11	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	9	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
17	2	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
18	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2	Cable Tie	20-SDMS-02	Fig. 63
20	1	Suspension Clamp for Quadruplex Messenger	20-SDMS-02	Fig. 31
21	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 304
22	32M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
23	14M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
24	1	Danger Sign Plate	20-SDMS-02	Fig. 49
25	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
26	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
27	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
28	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
30	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-13A OC14S,14M, COMPOSITE, SINGLE CIRCUIT, MEDIUM ANGLE STRUCTURE,16°-60° W/M.V & L.V STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S - 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	9	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
17	2	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
18	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2	Cable Tie	20-SDMS-02	Fig. 63
20	1	Suspension Clamp for Quadruplex Messenger	20-SDMS-02	Fig. 31
21	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 304
22	32M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
23	14M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
24	1	Danger Sign Plate	20-SDMS-02	Fig. 49
25	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
26	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
27	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
28	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
30	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-13B OC14S,14M, COMPOSITE, SINGLE CIRCUIT, MEDIUM ANGLE STRUCTURE,16°-60° W/M.V & L.V STAYS

DRW.10-14 OC14S, 14M, COMPOSITE, SINGLE CIRCUIT HEAVY ANGLE STRUCTURE, 61°-90° W/M.V & L.V STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
11	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
17	2	Preformed Line Post Insulator Top Tie for Merlin ACSR/AW	20-SDMS-02	Fig. 35
18	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2	Strain Clamp, Straight Line Deadend Type for Quadruplex Messenger	20-SDMS-02	Fig. 30
20	2	Cable Tie	20-SDMS-02	Fig. 63
21	4	Parallel Groove Comp. Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
22	3	Insulating cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
23	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 304
24	32M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
25	14M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
26	1	Danger Sign Plate	20-SDMS-02	Fig. 49
27	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
28	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
29	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
30	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
31	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
32	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-14A OC14S,14M, COMPOSITE, SINGLE CIRCUIT, HEAVY ANGLE STRUCTURE, 61°-90° W/TWO STAYS

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	2	Line Post Insulator	15-SDMS-01	
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
17	2	Preformed Line Post Insulator Top Tie for Quail ACSR/AW	20-SDMS-02	Fig. 35
18	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2	Strain Clamp, Straight Line Deadend Type for Quadruplex Messenger	20-SDMS-02	Fig. 30
20	2	Cable Tie	20-SDMS-02	Fig. 63
21	4	Parallel Groove Comp. Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
22	3	Insulating cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
23	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 304
24	32M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
25	14M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
26	1	Danger Sign Plate	20-SDMS-02	Fig. 49
27	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
28	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
29	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
30	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
31	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
32	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-14B OC14S,14M, COMPOSITE, SINGLE CIRCUIT, HEAVY ANGLE STRUCTURE, 61°-90° W/TWO STAYS

DRW.10-15 OC14S, 14M, COMPOSITE, SINGLE CIRCUIT, TERMINAL STRUCTURE WITH M.V & L.V STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
11	5	Anchor Shackle	20-SDMS-02	Fig. 20
12	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
14	3	Parallel Groove Clamp, Three Bolts Type for Merlin ACSR Conductor	20-SDMS-02	Fig. 39
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig. 39
16	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
17	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
18	1	Cable Tie	20-SDMS-02	Fig. 63
19	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
20	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 304
21	32M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
22	14M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
23	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
24	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
25	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
26	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
27	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
28	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-15A OC14S, 14M, COMPOSITE, SINGLE CIRCUIT, TERMINAL STRUCTURE WITH M.V & L.V STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3 Set	Suspension Insulator	15-SDMS-01	Page 23
06	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Sring Washer	20-SDMS-02	Fig. 15
07	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
11	5	Anchor Shackle	20-SDMS-02	Fig. 20
12	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
13	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
14	3	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig. 39
15	1	Parallel Groove Clamp, Two Bolts Type for Quail ACSR Conductor	20-SDMS-02	Fig. 39
16	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
17	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
18	1	Cable Tie	20-SDMS-02	Fig. 63
19	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
20	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 304
21	32M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
22	14M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
23	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
24	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
25	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
26	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
27	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
28	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
29	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-15B OC14S, 14M, COMPOSITE, SINGLE CIRCUIT, TERMINAL STRUCTURE WITH M.V & L.V STAYS

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DRW.10-16 OC14S, 14M, COMPOSITE, S.C. DOUBLE TERMINAL AT 90° STRUCTURE WITH M.V & L.V STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail–Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	4	Earthwire Suspension Support	20-SDMS-02	Fig. 5
17	3	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
20	4	Parallel Groove Compression Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
21	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
23	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
24	1 Set	Composite Two Stay Assembly for Double Terminal & IMP Tap-Off	20-SDMS-02	Drw. 304
25	2 Set	M.V – S.C One Stay Assembly	20-SDMS-02	Drw. 305
26	61M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
27	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
28	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
29	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
30	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
31	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
32	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
33	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
34	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-16A OC14S, 14M, COMPOSITE, S.C. DOUBLE TERMINAL AT 90° STRUCTURE WITH M.V & L.V STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S - 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail - Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for Quail - Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	10	Anchor Shackle	20-SDMS-02	Fig. 20
15	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
16	4	Earthwire Suspension Support	20-SDMS-02	Fig. 5
17	3	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
18	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
19	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
20	4	Parallel Groove Compression Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
21	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
23	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
24	1 Set	Composite Two Stay Assembly for Double Terminal & IMP Tap-Off	20-SDMS-02	Drw. 304
25	2 Set	M.V - S.C One Stay Assembly	20-SDMS-02	Drw. 305
26	61M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
27	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
28	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
29	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
30	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
31	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
32	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
33	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
34	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-16B OC14S, 14M, COMPOSITE, S.C. DOUBLE TERMINAL AT 90° STRUCTURE WITH M.V & L.V STAYS

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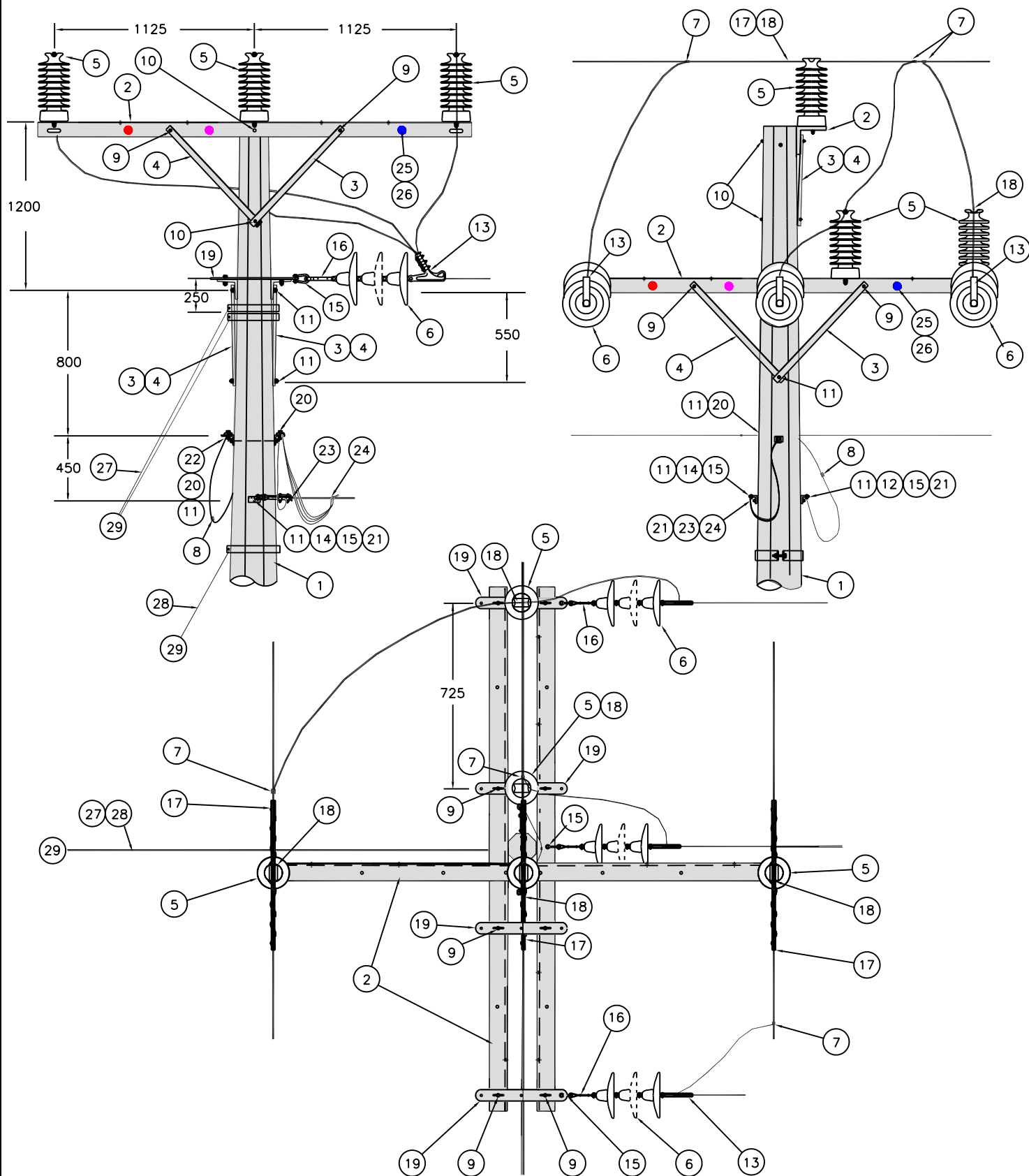
DRW.10-17 OC14S,14M, S.C COMPOSITE TAP-OFF ON INTERMEDIATE 0°-5° STRUCTURE WITH STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin-Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	5	Anchor Shackle	20-SDMS-02	Fig. 20
16	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	3 Set	Preformed Armoured Rods for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
18a	3	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
18b	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
21	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
22	1 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
23	4	Parallel Groove Compression Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
24	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
25	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
26	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
27	29M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
28	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
29	1 Set	Composite Two Stay Assembly for Double Terminal & IMP Tap-Off	20-SDMS-02	Drw. 301
30	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
31	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
32	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
33	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
34	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
35	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
36	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-17A OC14S, 14M, S.C. COMPOSITE TAP-OFF ON INTERMEDIATE 0°-5° STRUCTURE WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S - 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin-Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	5	Anchor Shackle	20-SDMS-02	Fig. 20
16	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	3 Set	Preformed Armoured Rods for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
18a	3	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
18b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
21	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
22	1 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
23	4	Parallel Groove Compression Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
24	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
25	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
26	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
27	29M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
28	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
29	1 Set	Composite Two Stay Assembly for Double Terminal & IMP Tap-Off	20-SDMS-02	Drw. 301
30	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
31	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
32	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
33	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
34	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
35	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
36	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-17B OC14S,14M, S.C. COMPOSITE TAP-OFF ON INTERMEDIATE 0°-5° STRUCTURE WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF

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SEC DISTRIBUTION CONSTRUCTION STANDARDS	SDCS-01
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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail-Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	5	Anchor Shackle	20-SDMS-02	Fig. 20
16	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	3 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
18a	3	Preformed Line Post Insulator Top Tie for Quail With Armour	20-SDMS-02	Fig. 35
18b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
19	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
21	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
22	1 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
23	4	Parallel Groove Compression Connector for 120mm2 Quadruplex Messenger	20-SDMS-02	Fig. 39
24	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
25	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
26	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
27	29M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
28	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
29	1 Set	Composite Two Stay Assembly for Double Terminal & IMP Tap-Off	20-SDMS-02	Drw. 301
30	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
31	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
32	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
33	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
34	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
35	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
36	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-17C OC14S, 14M, S.C. COMPOSITE TAP-OFF ON INTERMEDIATE 0°-5° STRUCTURE WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

DRW.10-18 OC14S,14M S.C COMPOSITE TAP-OFF ON LIGHT ANGLE 6°-15° STRUCTURE WITH STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin-Merlin	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	5	Anchor Shackle	20-SDMS-02	Fig. 20
16	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	3 Set	Preformed Armoured Rods for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
18	3	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 36
19	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
20	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
21	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
22	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
23	1 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
24	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
25	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
26	45M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
27	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
28	1 Set	Composite Three Stay Assembly with 16,19 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 300
29	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
30	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
31	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
32	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
33	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
34	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
35	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-18A OC14S, 14M, S.C. COMPOSITE TAP-OFF ON LIGHT ANGLE 6°-15° STRUCTURE WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Merlin-Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	5	Anchor Shackle	20-SDMS-02	Fig. 20
16	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	3 Set	Preformed Armoured Rods for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
18	3	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 36
19	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
20	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
21	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
22	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
23	1 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
24	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
25	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
26	45M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
27	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
28	1 Set	Composite Three Stay Assembly with 16, 19 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 300
29	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
30	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
31	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
32	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
33	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
34	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
35	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		MERLIN MAIN & QUAIL TAP-OFF		

DRW.10-18B OC14S, 14M, S.C. COMPOSITE TAP-OFF ON LIGHT ANGLE 6°-15° STRUCTURE WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	3	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	3	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	3 Set	Suspension Insulator	15-SDMS-01	Page 23
07	3	Parallel Groove Compression Connector for Quail-Quail	20-SDMS-02	Fig. 39
08	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	14	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	1	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	5	Anchor Shackle	20-SDMS-02	Fig. 20
16	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	3 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
18	3	Preformed Line Post Insulator Side Tie for Quail With Armour	20-SDMS-02	Fig. 36
19	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
20	4	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
21	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
22	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
23	1 Set	Preformed Armoured Rods for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
24	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
25	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
26	45M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
27	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
28	1 Set	Composite Three Stay Assembly with 16,19 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 300
29	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
30	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
31	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
32	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
33	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
34	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
35	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-18C OC14S, 14M, S.C. COMPOSITE TAP-OFF ON LIGHT ANGLE 6°-15° STRUCTURE WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

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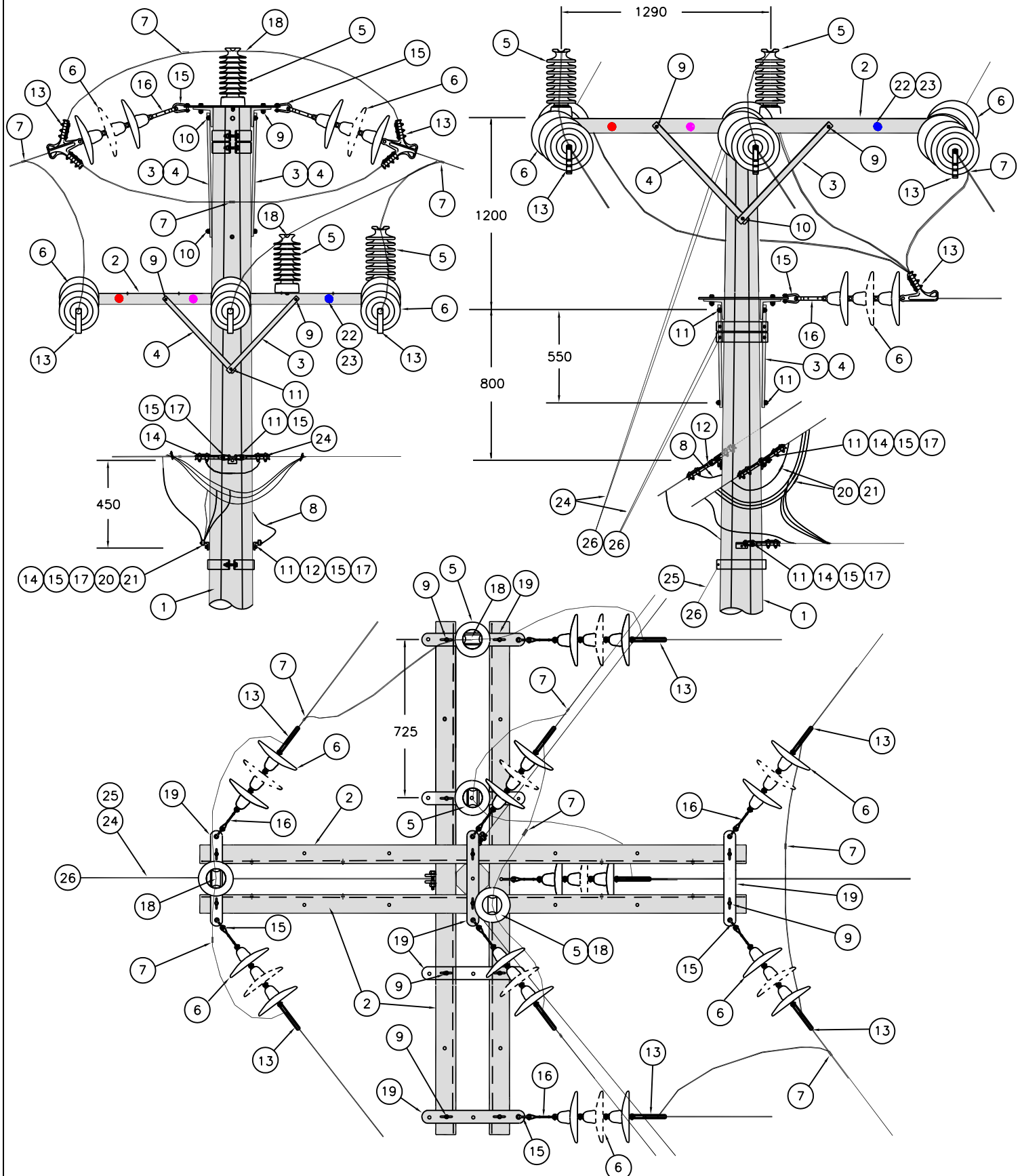
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DRW.10-19 OC14S, 14M S.C. COMPOSITE TAP-OFF ON MEDIUM & HEAVY 16°-90° ANGLE STRUCTURE WITH STAYS

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S - 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Crossarm - L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace - L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace - L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Merlin-Merlin	20-SDMS-02	Fig. 39
08	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	3	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	15	Anchor Shackle	20-SDMS-02	Fig. 20
16	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	4	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18	4	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
19	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	8	Parallel Groove Compression Connector for 120mm2 Quad. Messenger	20-SDMS-02	Fig. 39
21	6	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
23	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
24	61M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
25	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
26	1 Set	Composite Three Stay Assembly with 16&24 Turn Buckle	20-SDMS-02	Drw. 304
27	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
28	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
29	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
30	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
31	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
32	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
33	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-19A OC14S, 14M S.C. COMPOSITE TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR MERLIN MAIN & MERLIN TAP-OFF

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Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07a	3	Parallel Groove Compression Connector for Merlin – Merlin	20-SDMS-02	Fig. 39
07b	3	Parallel Groove Compression Connector for Merlin – Quail	20-SDMS-02	Fig. 39
08	2	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13a	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
13b	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	3	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	15	Anchor Shackle	20-SDMS-02	Fig. 20
16	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	4	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18a	2	Preformed Line Post Insulator Top Tie for Merlin	20-SDMS-02	Fig. 35
18b	2	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
19	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
20	8	Parallel Groove Compression Connector for 120mm^2 Quad. Messenger	20-SDMS-02	Fig. 39
21	6	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
23	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
24	61M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
25	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
26	1 Set	Composite Three Stay Assembly with 16&24 Turn Buckle	20-SDMS-02	Drw. 304
27	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
28	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
29	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
30	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
31	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
32	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
33	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-19B OC14S, 14M S.C. COMPOSITE TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR MERLIN MAIN & QUAIL TAP-OFF

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	4	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	4	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	9 Set	Suspension Insulator	15-SDMS-01	Page 23
07	6	Parallel Groove Compression Connector for Quail – Quail	20-SDMS-02	Fig. 39
08	2	Parallel Groove Compression Connector for Quail	20-SDMS-02	Fig. 39
09	22	Machine Bolt, M20x60mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
11	4	Machine Bolt, M20x265mm With Nut, 2 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	9	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	3	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	15	Anchor Shackle	20-SDMS-02	Fig. 20
16	9	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	4	Earthwire Suspension Support	20-SDMS-02	Fig. 05
18	4	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
19	7	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 7
20	8	Parallel Groove Compression Connector for 120mm² Quad. Messenger	20-SDMS-02	Fig. 39
21	6	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
23	6	Phasing Plate Mounting Bracket	20-SDMS-02	Fig. 54
24	61M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
25	13M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
26	1 Set	Composite Three Stay Assembly with 16&24 Turn Buckle	20-SDMS-02	Drw. 304
27	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
28	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
29	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
30	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
31	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
32	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
33	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-19C OC14S, 14M S.C COMPOSITE TAP-OFF ON MEDIUM & HEAVY ANGLE 16°-90° WITH STAYS FOR QUAIL MAIN & QUAIL TAP-OFF

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Dated: 07-03-2007G

1200

250

350

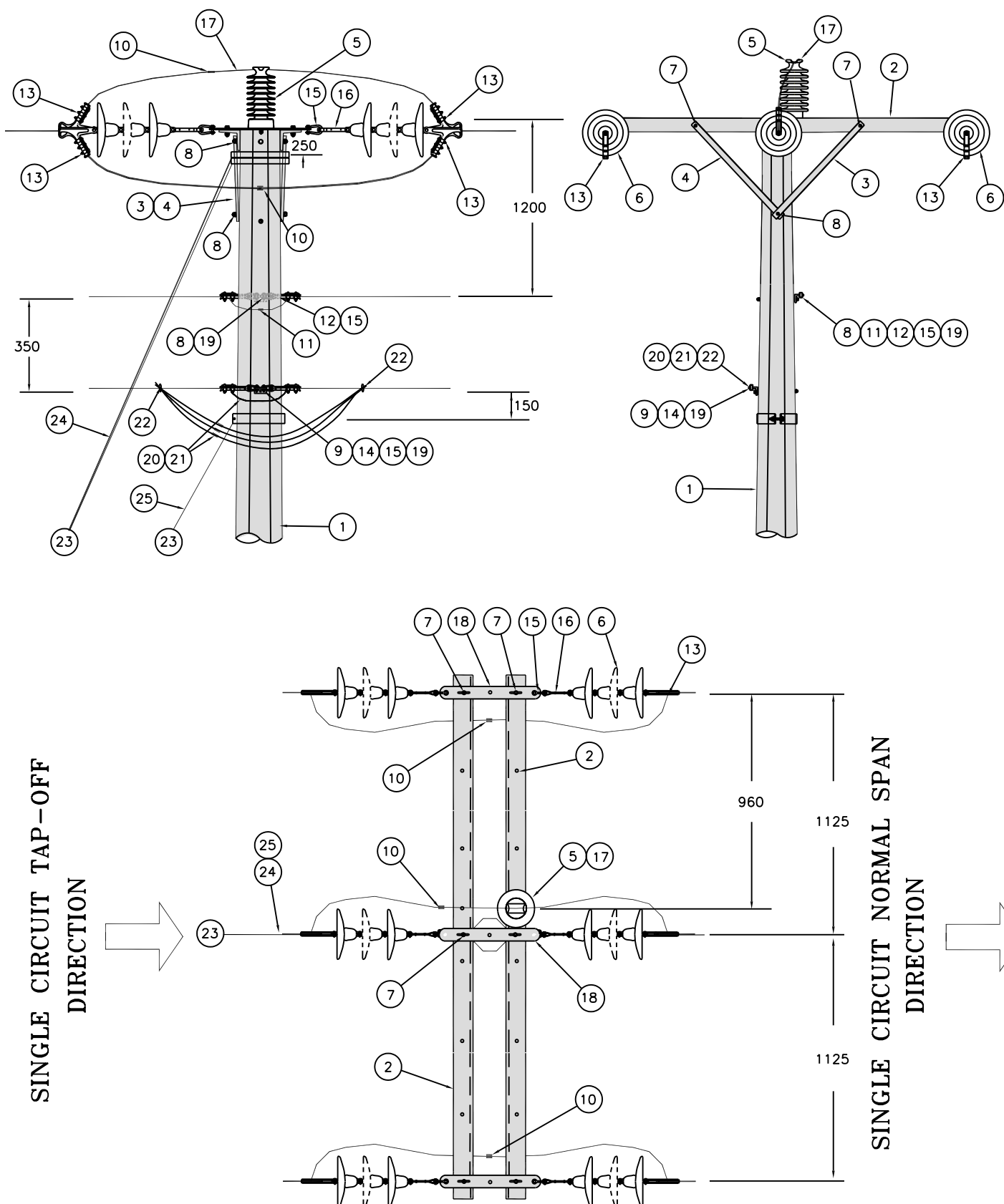
150

960

1125

1125

SINGLE CIRCUIT TAP-OFF DIRECTION

SINGLE CIRCUIT NORMAL SPAN DIRECTION

DRW.10-20 OC14S, 14M SINGLE CIRCUIT, COMPOSITE SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF

ALL DIMENSIONS ARE IN MILLIMETER

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
11	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
14	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	10	Anchor Shackle	20-SDMS-02	Fig. 20
16	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	1	Preformed Line Post Insulator Top Tie For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 35
18	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
20	4	Parallel Groove Compression Connector for 120mm2 Quad. Messenger	20-SDMS-02	Fig. 39
21	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2	Cable Tie	20-SDMS-02	Fig. 63
23	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 301
24	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
25	14M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
26	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
27	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
28	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
30	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
31	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
32	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.10-20A OC14S, 14M SINGLE CIRCUIT, COMPOSITE SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF (MERLIN MAIN)

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SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm – L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 01
03	2	Brace – L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 04
04	2	Brace – L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 04
05	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
06	6 Set	Suspension Insulator	15-SDMS-01	Page 23
07	10	Machine Bolt, M20x60mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	3	Machine Bolt, M20x225mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Machine Bolt, M20x265mm W/1 Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	3	Parallel Groove Comp. Connector for 67.44mm ACSR/AW (Quail)	20-SDMS-02	Fig. 39
11	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
12	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
13	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
14	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
15	10	Anchor Shackle	20-SDMS-02	Fig. 20
16	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
17	1	Preformed Line Post Insulator Top Tie For 67.44mm ACSR/AW (Quail)	20-SDMS-02	Fig. 35
18	3	Double Arming Plate, 100x12x700mm	20-SDMS-02	Fig. 07
19	2	Earthwire Suspension Support	20-SDMS-02	Fig. 05
20	4	Parallel Groove Compression Connector for 120mm2 Quad. Messenger	20-SDMS-02	Fig. 39
21	3	Insulating Cap for Quadruplex Messenger	20-SDMS-02	Fig. 40
22	2	Cable Tie	20-SDMS-02	Fig. 63
23	1 Set	Composite Two Stay Assembly with 16 & 24mm Dia Turn Buckle	20-SDMS-02	Drw. 301
24	32M	Stay Wire 7/4, 12mm Dia. HDG Steel, UTS 101kN (Min)		
25	14M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel, UTS 65kN (Min)		
26	1 Set	Danger Sign Plate	20-SDMS-02	Fig. 49
27	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
28	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
29	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
30	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
31	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
32	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.10-20B OC14S, 14M SINGLE CIRCUIT, COMPOSITE SLACK POLE STRUCTURE WITH STAYS FROM SINGLE CIRCUIT TAP-OFF (QUAIL MAIN)